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(54) IONICALLY CONDUCTIVE POLYELECTROLYTE

(57) Abstract:

PURPOSE: To improve the ionic conductivity and handling properties by incorporating a sol. electrolytic salt into a specific org. polymer.

CONSTITUTION: An active hydrogen compd., a glycidyl ether, and a 4C or higher alkylene oxide are reacted to give a polyether, into which, if necessary, a polymerizable group is introduced at the terminal of the main chain, thereby giving an org. compd. having an average mol.wt. of 1000-20000 and a backbone structure of formula I {wherein Z is a residue of the active hydrogen compd.; R¹ is formula II [wherein (n) is 0-25; and R is 1-20C alkyl, alkenyl, or (alkyl) aryl]; R² is 4C or higher alkylene; Y is an active hydrogen group or a polymerizable group; (k) is 1-12; (l) is 1-230; (m) is 1-300; and l/m>0.1}. The org. compd. is then crosslinked to give an org. polymer, which is doped with a sol. electrolytic salt in an amt. of 0.0001-5.0mol based on one mol of an ether linkage oxygen in the polymer.

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